Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start		Rating **	Α	Issue No. 1				
LM End		Issue Type +	Ма	Location * N/A				
Category Earthen Levee				GPS Latitude/Longitude				
				Start		End		
Item Emergency Supplies &					0		0	
пеш	Equipment •						0	
DWR ID	DWR ID DWR_RD1001_01_s _ 2012_1							
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
The LMA has flood fight supplies on hand at their district office.								

No Photos

LM Start		Rating **	Α	Issue No.		2	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &	Training		0		0
item				٥		0	
DWR ID	DWR_RD1	001_01_s _ 201	12_2				
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			
The LMA p	articipates	s in the flood f	ight clas	s put on by	RD	784 and DWF	?

No Photos

annually.

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start		Rating **	Α	Issue No.		3		
LM End		Issue Type +	Ma	Location *		N/A		
0-1	evee		GPS La	atitud	e/Longitude			
Category				Start		End		
Item	Operation	nce		0		0		
пеш	Manuals			0				
DWR ID	DWR_RD1	001_01_s _ 201	2_3					
		Comn	nent Coo	de				
		Inspecto	or Comm	nent				
The LMA h	The LMA has a copy of the O&M manuals at the district office.							

No Photos

LM Start 0.01 Rating ** Α Issue No. 17 Issue Type + Location * WS 3.83 Ma LM End Earthen Levee GPS Latitude/Longitude Category End Vegetation 38.980181° 38.966785° Item -121.470314° -121.533482° DWR RD1001 01 f 2016 17 DWR ID Comment Code V1: Control annual grass and weeds on the levee slopes and easements. Inspector Comment



View of the maintained vegetation on the waterside looking upstream. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	0.01	Rating **	Α	Issue No.		13		
LM End	3.83	Issue Type +	Ма	Location *		LS		
Category Earthen Levee				GPS L	atitud	e/Longitude		
Calegory			Start		End			
Item	Vegetatio	n		38.9801	79°	38.966785°		
пеш	-121.470314 ° -121.5334					-121.533481 °		
DWR ID DWR_RD1001_01_f _ 2016_13								
		Comn	nent Cod	de				
V1 : Contreasements		grass and wee	eds on th	e levee slo	pes a	and		
		Inspecto	or Comm	nent				



View of the maintained vegetation on the landside looking upstream. Fall 2016.

LM Start	1.40	Rating **	М	Issue No.		25
LM End	1.40	Issue Type +	Ма	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Category			Start		End	
Item	Slope Sta	bility		38.9715	89°	38.971589°
item				-121.4920	49°	-121.492049°
DWR ID DWR_RD1001_01_f _ 2016_25						
	Comment Code					

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment



View of tier ruts on the landside levee slope looking upstream. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Yankee Slough	Right	4.12	09/20/2016 09/20/2016	Sterling York

LM Start	2.75	Rating **	N	Issue No.		10	
LIVI Start	-						
LM End	2.75	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS L	atitud	e/Longitude	
Catogory			Start		End		
Item	Trim / Thi	n Trees		38.9683	376°	38.968376°	
item				-121.5156	-121.515626°		
DWR ID DWR_RD1001_01_f _ 2015_10							
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
		Inspect	or Comm	nent			



View of stump on the landside slope looking upstream. Fall 2016.

LM Start	3.09	Rating **	М	Issue No.		19	
LM End	3.09	Issue Type +	Ма	Location *		LS	
Category	evee	GPS La	atitude	e/Longitude			
Calegory			Start		End		
Item	Trim / Thi	n Trees		38.9656	60°	38.965660°	
пеш	-121.520548 ° -121.5205						
DWR ID	DWR ID DWR_RD1001_01_s _ 2016_19						
		Comn	nent Cod	de			
T1 : Trim t	rees to at l	east five feet	above g	round level.			
			-				
		Inspecto	or Comm	nent			



View of a tree that need limbs trimmed. Fall 2016.

Page 1 of 5

Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

	0.04	Dating **	Δ.	Issue No.		45	
LM Start	0.01	Rating **	Α	issue ivo.		15	
LM End	3.65	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetation			38.9712	84°	38.965842°	
item				-121.474020 °		-121.533683 °	
DWR ID	DWR_RD1	001_02_f _ 201	6_15				
		Comn	nent Cod	de			
V1 : Contro		grass and wee	eds on th	e levee slo	pes a	and	
		Inspect	or Comm	nent			



View of landside looking down stream of maintained annual grasses. Fall 2016.

LM Start	0.01	Rating **	Α	Issue No.	17		
LM End	3.65	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS La	atitud	le/Longitude	
				Start		End	
Vegetation			38.971285°		38.965840 °		
пеш				-121.4740	20°	-121.533681 °	
DWR ID	DWR_RD1	001_02_f _ 201	6_17				
		Comn	nent Cod	de			
V1 : Control annual grass and weeds on the levee slopes and easements.							

Inspector Comment

Photo 1 of 1: FA_2016_RD1001_35_17_20160926_00022.jpg



View of waterside looking down stream of maintained annual grasses. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	0.27	Rating **	A/W	Issue No.	4		
LM End	0.27	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Animal Co	ontrol		38.9743	23°	38.974323°	
пеш				-121.4764	42 °	-121.476442°	
DWR ID DWR_RD1001_02_f _ 2014_4							
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

There is no animal activity at this location, the existing hole near the crown needs to be repaired, Fall 2016.

LM Start	0.27	Rating **	A/W	Issue No.	4 (cont)
LM End	0.27	Issue Type +	Ma	Location *	WS



This photo was taken from the levee crown facing east looking down the waterward slope at an animal burrow. Fall 2014.

Photo 2 of 3: FA_2016_RD1001_35_4_20160906_00002.jpg



Another picture of the animal burrow. Fall 2014.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	0.27	Rating **	A/W	Issue No.		4 (cont)	
LM End	0.27	Issue Type +	Ma	Location *		WS	
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	ontrol		38.9743	23°	38.974323	0
item				-121.4764	42 °	-121.476442	0
DWR ID DWR_RD1001_02_f _ 2014_4							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

There is no animal activity at this location, the existing hole near the crown needs to be repaired, Fall 2016.



Although hard to see with the grass, there is still an animal hole on waterward levee slope near the crown at this location. Hole was approximately 1' in diameter and 8" deep that needs to be repaired.

There is no animal activity at this location. Fall 2016.

LM Start	1.11	Rating **	С	Issue No.		8	
LM End	1.11	Issue Type +	Ma	Location *	LS		
Category	evee	GPS L	atitud	e/Longitude			
Category				Start		End	
Item	Trim / Thin Trees			38.971547°		38.971547°	
пеш				-121.490968 °		-121.490968°	
DWR ID	DWR_RD1	001_02_s _ 201	5_8				
		Comn	nent Coo	le			
T1 : Trim trees to at least five feet above ground level.							

Inspector Comment

The trees in this area have been trimmed back and are no longer an issue.

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	1.33	Rating **	М	Issue No.	1		
LM End	1.36	Issue Type +	Ma	Location *	WS		
Category				GPS Latitude/Longitude			
Calegory		Start		End			
ltem 2015 USACE Erosion Survey, DRAFT			Survey,	38.96974	0°	38.969640	0
				-121.49432	?7°	-121.494829	0
DWR ID DWR_RD1001_02_s _ 2016_1							
Comment Code							

No Photos

Inspector Comment

2011 - New erosion site. Steep eroding slope. Fairly old scarp with vegetation growth. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: YAS_1-7_L]

LM Start	1.76	Rating **	A/W	Issue No.		5		
LM End	1.76	Issue Type +	Ma	Location *		LS		
Category Earthen Levee			GPS La	atitud	le/Longitude			
Category				Start		End		
Item	Slope Stability			38.9702	65°	38.970265°		
item				-121.5023	48°	-121.502348°		
DWR ID DWR_RD1001_02_f _ 2015_5								
	0							

Comment Code

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

No Photos

LM Start	1.88	Rating **	N	Issue No.	6	
LM End	1.88	Issue Type +	Ма	Location *	LS	
Category Earthen Levee				GPS Latitude/Longitude		
Category			Start		End	
Item	Trim / Thi	n Trees		38.9694	89°	38.969489°
пеш				-121.5041	55 °	-121.504155 °
DWR ID	DWR ID DWR_RD1001_02_f _ 2015_6					
Comment Code						

T5: Tree stumps.

Inspector Comment

Large stump at the landside levee toe should be removed.



View of large stump at the landside levee toe. Fall 2016.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yankee Slough	Left	3.65	09/20/2016 09/20/2016	Sterling York

LM Start	1.89	Rating **	N	Issue No.		13		
LM End	1.89	Issue Type +	Ma	Location *		LS		
Category	evee	GPS La	atitud	e/Longitude				
Calegory						End		
Item	Trim / Thi	38.9694	23°	38.969423°				
пеш			-121.5042	25°	-121.504225°			
DWR ID DWR_RD1001_02_f _ 2015_13								
		Comn	nent Cod	de				
T5 : Tree s	stumps.							
		Inspecto	or Comm	nent				
Large stump at the landside levee toe should be removed.								



View of large stump at the landside levee toe. Fall 2016.

LM Start	3.58	Rating **	Α	Issue No.		24		
LM End	3.58	Issue Type +	Ma	Location *		LS		
0-1	Earthen L	evee		GPS L	atitud	e/Longitude		
Category				Start		End		
Item	Emergency Supplies &				845°	38.965345°		
item	Equipmen	nt		-121.5326	615°	-121.532615°		
DWR ID DWR_RD1001_02_f _ 2016_24								
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
Stockpiled flood fight material. Fall 2016.								



View of stockpiled flood fight material. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	0.00	Rating **	Α	Issue No.		16	
LM End	12.57	Issue Type +	Ма	Location *		LS	
Category	GPS La	atitud	e/Longitude				
Calegory				Start		End	
Item	Vegetatio		39.0065	73°	38.941188°		
пеш				-121.3751	00°	-121.567583°	
DWR ID DWR_RD1001_03_f _ 2016_16							
Comment Code							
V1 : Control annual grass and weeds on the levee slopes and easements.							
Inspector Comment							



View of maintained vegetation on the landside looking downstream. Fall 2016.

Photo 1 of 1: FA_2016_RD1001_37_18_20160926_00038.jpg

LM Start	0.01	Rating **	Α	Issue No.		18		
LM End	12.57	Issue Type +	Ma	Location *		WS		
Cotogonia Earthen Levee				GPS La	atituc	le/Longitude		
Category			Start		End			
Vegetation			39.0066	01°	38.941187°			
пеш			-121.375288 °		-121.567582°			
DWR ID	DWR_RD1	001_03_f _ 201	6_18					
		Comn	nent Cod	de				
V1 : Contr	ol annual g	grass and wee	ds on th	e levee slo	pes	and		
easements.								
	Inspector Comment							
1								

06/20/2015

View of maintained vegetation on the waterside looking downstream. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	0.11	Rating **	М	Issue No.		2		
LM End	0.11	Issue Type +	Ma	Location *		CR		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Slope Sta	bility		39.0065	69°	39.006569°		
item				-121.377037°		-121.377037 °		
DWR ID DWR_RD1001_03_f _ 2013_2								
		Comn	nent Cod	de				
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	prevent		
		Inspecto	or Comm	nent				
Rutting caused by vehicles driving up the landward levee slope.								

Photo 1 of 2: FA_2016_RD1001_37_2_20160906_00003.jpg

This photo was taken from the crown of the levee facing west looking down the slope at rutting caused by vehicles driving up the landward levee slope. Fall 2015.

 LM Start
 0.11
 Rating **
 M
 Issue No.
 2 (cont)

 LM End
 0.11
 Issue Type +
 Ma
 Location *
 CR

Photo 2 of 2: FA_2016_RD1001_37_2_20160926_00039.jpg



View of the same rutting on the landside of the levee facing downstream. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	0.14	Rating **	М	Issue No.		23			
LM End	0.14	Issue Type +	Ma	Location *		LS			
Category Earthen Levee			GPS La	atitud	e/Longitude				
Calegory	Category			Start		End			
Itom	Item Slope Stability			39.0063	51 °	39.006351°			
пеш				-121.3773	13 °	-121.377313°			
DWR ID	DWR ID DWR_RD1001_03_s _ 2015_23								
Comment Code									
S3 : Repair the levee slope damaged by vehicle traffic and prevent									

access where possible.

Inspector Comment

Rutting caused by vehicles driving up the landward levee slope.



View of the rutting on the landside of the levee from the toe facing downstream.

LM Start	1.87	Rating **	A/W	Issue No.		28
LM End	1.87	Issue Type +	Ma	Location *		WS
Category	Earthen L	GPS Latitude/Longitude				
Calegory	egory			Start		End
Item	Slope Stability			38.9986	08°	38.998608°
пеш				-121.4055	70°	-121.405570 °
DWR ID DWR_RD1001_03_s _ 2013_28						

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Continual damage to waterside slope caused by vehicles, suggest blocking access.

Photo 1 of 1: FA_2016_RD1001_37_28_20160926_00041.jpg



Continual damage to waterside slope caused by vehicles. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	1.87	87 Rating ** A/W		Issue No.		29
LM End	1.87	Issue Type +	Issue Type + Ma			LS
Category Earthen Levee				GPS La	atitud	e/Longitude
Calegory						End
Item	Slope Sta	bility		38.9986	08°	38.998608°
item			-121.4055	70°	-121.405570 °	
DWR ID DWR_RD1001_03_s _ 2013_29						

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Continual damage caused by vehicles going around the gate, suggest blocking access.



Continual damage caused by vehicles going around the gate. Fall 2016

LM Start	2.28	Rating **	A/W	Issue No.		30
LM End	2.28	Issue Type + Ma		Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Slope Sta	bility		38.9963	02°	38.996302°
пеш			-121.4122	85 °	-121.412285°	
DWR ID	DWR_RD1	001_03_s _ 201	3_30			

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Damage to landside slope has been repaired. Continue to monitor area.

LM Start	2.28	Rating **	A/W	Issue No.	30 (cont)
LM End	2.28	Issue Type +	Ma	Location *	LS

Photo 1 of 2: FA_2016_RD1001_37_30_20160906_00020.jpg



Damage caused by vehicles. Spring 2013

Photo 2 of 2: FA_2016_RD1001_37_30_20160926_00043.jpg



Damage to landside slope has been repaired. Fall 2016.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	2.41	Rating **	С	Issue No.		33				
LM End	2.41	Issue Type +	Ma	Location *	LS					
Category	GPS La	atitud	e/Longitude							
Category				Start		End				
Item	Slope Sta	bility		38.9958	95°	38.995895				
пеш				-121.4146	22 °	-121.414622				
DWR ID	DWR ID DWR_RD1001_03_s _ 2015_33									
		Comn	nent Cod	de						
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	l prevent				
		Inspecto	or Comm	nent						
The landsi	The landside slope damage has been corrected.									

No Photos

LM Start	2.57	Rating **	A/W	Issue No.		34		
LM End	2.57	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Category			Start		End			
Item	Vegetatio	n		38.99564	42 °	38.995642	0	
пеш				-121.41762	26°	-121.417626	0	
DWR ID	DWR_RD1	001_03_s _ 201	5_34					
		Comn	nent Cod	le				

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Elderberries are blocking slope visibility.

No Photos

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence A/W : Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	2.59	Rating **	M	Issue No.	36			
LM End	2.59	Issue Type +	Ma	Location *	LS			
Category	evee	GPS L	atitud	e/Longitude				
Calegory				Start		End		
Item	Trim / Thi	n Trees		38.9955	83°	38.995583°		
item				-121.417995 ° -121.41				
DWR ID DWR_RD1001_03_s _ 2015_36								
		Comn	nent Cod	de				
T3 : Trim a		es to allow vi	sibility of	the ground	d and	room to		
		Inspecto	or Comm	nent				
Tree less	than 4" in o	diameter shou	ld be rer	noved				



View of a small starter tree on landside slope looking downstream that is less than 4" in diameter.

LM Start	2.96	Rating **	М	Issue No.		42			
LM End	2.96	Issue Type +	Location *		LS				
Category	evee	GPS La	atitud	e/Longitude					
Category				Start		End			
Item	Encroachi	ments		38.9941	57°	38.994157°			
item				-121.4245	20°	-121.424520°			
DWR ID	DWR ID DWR_RD1001_03_f _ 2013_42								
		Comn	nent Cod	de					
DE : Debri	S								
		Inspecto	or Comm	nent					
Remove co	Remove couch on levee slope.								



View of a couch on the landside levee slope looking downstream. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	3.52	Rating **	М	Issue No.		906			
LM End	3.52	Issue Type +	Ma	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Vegetatio	n		38.9917	'45 °	38.991745°			
пеш				-121.434398°		-121.434398 °			
DWR ID	DWR_RD1	001_03_s _ 201	2_906						
		Comn	nent Cod	de					
V4 : Elderk	perries are	blocking visib	ility and	flood fight	сара	bility.			
	Inspector Comment								

No Photos

Issue No. LM Start 3.55 Rating ** 21 Location * Issue Type + WS 3.61 Ма LM End Earthen Levee GPS Latitude/Longitude Category End Slope Stability 38.991454° 38.991217° Item -121.435031 ° -121.436057° DWR RD1001 03 s 2016 21 DWR ID Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment



Photo 1 of 1: FA 2016 RD1001 37 21 20160906 00013.jpg

Erosion on waterside slope. Remains as of Fall 2016.

LM Start	4.06	Rating **	A/W	Issue No.		24	
LM End	4.06	Issue Type +	Ma	Location *	LS		
Category Earthen Levee				GPS La	titud	e/Longitude	
Calegory	alegory					End	
Item	Vegetatio	n		38.9913	70°	38.991370	0
item				-121.4443	51 °	-121.444351	0
DWR ID	DWR_RD1	001_03_f _ 201	6_24				
		Comn	nent Cod	le			

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown	U : Unacceptable	A/W · Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	4.48	Rating **	М	Issue No.	31			
LM End	4.48	Issue Type +	Ma	Location *		LS		
Category Earthen Levee GPS Latitude/Longitude								
Calegory				Start		End		
Item	Slope Sta	bility		38.9918	51 °	38.991851°		
item	-121.452116° -121.452116							
DWR ID	DWR ID DWR_RD1001_03_f _ 2016_31							
		Comn	nent Cod	de				
S1 : Repai	r slope ins	tability.						
			•					
		Inspecto	or Comm	nent				



View of erosion in the landside levee slope looking downstream. Fall 2016.

LM Start	4.65	Rating **	М	Issue No.		58		
LM End	4.65	Issue Type +	Ма	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Vegetation	n		38.9915	51 °	38.991551 °		
Item				-121.4550	92°	-121.455092°		
DWR ID	DWR ID DWR_RD1001_03_s _ 2012_58							
		Comn	nent Cod	de				
V4 : Elderl	perries are	blocking visib	ility and	flood fight	сара	ability.		
	Inspector Comment							

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	4.82	Rating **	М	Issue No.		910	
LM End	4.82	Issue Type +	Ma	Location *		LS	
Cotogony	Earthen L	evee		GPS La	tituc	le/Longitude	
Category				Start		End	
Item	Vegetatio	n		38.9907	73°	38.990773°	
пеш				-121.458203 °		-121.458203°	
DWR ID	DWR ID DWR_RD1001_03_s _ 2012_910						
		Comn	nent Cod	de			
V4 : Elderl	perries are	blocking visit	ility and	flood fight of	apa	ability.	
	Inspector Comment						

No Photos

LM Start	5.81	Rating **	М	Issue No.		32
LM End	5.81	Issue Type +	Ма	Location *		LS
Category Earthen Levee				GPS La	atitud	e/Longitude
Calegory						End
Item	Trim / Thi	n Trees	38.9858	82°	38.985882°	
пеш				-121.4753	94°	-121.475394°
DWR ID	DWR_RD1	001_03_f _ 201	6_32			
Comment Code						
T2 : Thin t	T2: Thin trees to allow visibility of the ground and room to flood fight.					

Inspector Comment

Trees less than 4" in diameter should be removed.

Photo 1 of 1 : FA_2016_RD1001_37_32_20160926_00056.jpg



View of starter tree with diameter less than 4". Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	6.47	Rating **	М	Issue No.		40	
LM End	6.47	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Slope Sta	Slope Stability)20°	38.984020°	
пеш	1			-121.487404°		-121.487404°	
DWR ID	DWR_RD1	001_03_f _ 201	6_40				
		Comn	nent Cod	de			
S2 : Repai where pos		slope damag	jed by fo	ot traffic ar	nd pr	event access	
Inspector Comment							



View of slope instability on the waterside at gate caused by foot traffic. Fall 2016.

LM Start	6.47	Rating **	М	Issue No.	38	
LM End	6.47	Issue Type +	Ма	Location *	LS	
Category Earthen Levee				GPS La	atituc	le/Longitude
Calegory	oi y			Start		End
Item	Erosion / I	osion / Bank Caving			19°	38.984019°
item				-121.4874	04°	-121.487404°
DWR ID	DWR_RD1	001_03_s _ 201	3_38			
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						

Inspector Comment

LM Start	6.47	Rating **	М	Issue No.	38 (cont)
LM End	6.47	Issue Type +	Ma	Location *	LS

Photo 1 of 2: FA_2016_RD1001_37_38_20160906_00022.jpg



Erosion caused by run off from the roadway. Spring 2013

Photo 2 of 2 : FA_2016_RD1001_37_38_20160926_00057.jpg



Erosion caused by run off from the roadway still exist. Fall 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	7.22	Rating **	М	Issue No.	17		
LM End	7.31	Issue Type +	Ма	Location *	WS		
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	2015 USACE Erosion Survey, DRAFT			38.9827	'37 °	38.982572 °	
iteiii				-121.5011	44 °	-121.502797°	
DWR ID	DWR_RD1	001_03_s _ 201	6_17				
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			

2008 - Sandy/silty banks with rotational slab failures creating near vertical bank with pop-outs due to tree failures. Narrow berm. 2015: Last observed in 2013. [2015 Site ID: BER_5-7_L]



USACE 2013 Photo #1

LM Start	9.31	Rating **	М	Issue No.		44		
LM End	9.31	Issue Type +	Ma	Location *		WS		
Catagory	Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Vegetation			38.970576°		38.970576°		
item			-121.533334°		° -121.533334 °			
DWR ID	DWR_RD1001_03_f _ 2016_44					·		
Comment Code								

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	9.69	Rating **	М	Issue No.	No. 48								
LM End	9.69	Issue Type +	Ма	Location *		LS							
Catagory	Earthen L	evee		GPS La	atitud	le/Longitude							
Category				Start		End							
Item	Animal Control			38.9692	42°	38.969242°							
item				-121.5377	25 °	-121.537725°							
DWR ID DWR_RD1001_03_f _ 2016_48													
		_											

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Existing rodent hole are no longer active. When holes are filled, rating can be changed to "C" corrected.



View of existing rodent hole that are no longer active on the landside slope. Fall 2016.

LM Start	10.36	Rating **	М	Issue No.	10	
LM End	10.40	Issue Type +	Ma	Location *	WS	
Category	Suppleme		GPS Latitude/Longitude			
Calegory				Start		End
Item	2015 USACE Erosion Survey,			38.9645	83 °	38.964010°
пеш	DRAFT		-121.5449	67°	-121.545228°	
DWR ID	DWR_RD1	DWR_RD1001_03_s _ 2016_10				
Comment Code						

Inspector Comment

2011 - Large section of bank has slumped off. RD has flagged and appears to be watching. 2012 - Slopes slightly steeper. 2013 - Minor new erosion observed. 2015: Last observed in 2013. [2015 Site ID: BER_2-5_L]





USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	10.58	Rating **	С	Issue No.		47		
LM End	10.58	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Trim / Thin Trees			38.9616	02°	38.961602 °			
item				-121.546464 °		° -121.546464		
DWR ID	DWR_RD1	001_03_s _ 201	5_47					
		Comn	nent Cod	de				
T1: Trim t	rees to at	least five feet	above g	round level				
	Inspector Comment							
Trees have	Trees have been trimmed up at this location.							

No Photos

LM Start	11.08	Rating **	М	Issue No.	1		
LM End	11.16	Issue Type +	Ма	Location *	on * WS		
Catagory	Supplemental			GPS Latitude/Longitude			
Category				Start		End	
Item	2015 USACE Erosion Survey, DRAFT			38.95507	70°	38.954227°	
itein				-121.54952	28°	-121.550592°	
DWR ID	DWR_RD1	6_1					
Comment Code							

Inspector Comment

2011 - Large slumped sections of bank. 2012 - Slopes slightly steeper. 2015: Last observed in 2013. [2015 Site ID: BER_1-9_L]



Photo 1 of 1: FA_2016_RD1001_37_1_20160906_00001.jpg

USACE 2013 Photo #1

LM Start	11.15	Rating **	С	Issue No.		6	
LM End	11.15	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Vegetation Item		38.9541	67°	38.954167	0		
Item				-121.5503	04°	-121.550304	0
DWR ID	DWR_RD1	001_03_s _ 201	6_6				
		_					

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Wild growth at landside toe has been burned off.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

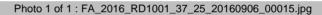
Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	11.23	Rating **	М	Issue No.		22			
LM End	11.26	Issue Type +	Ма	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Vegetatio	n		38.9533	867°	38.953025°			
пеш				-121.551428°		-121.551808°			
DWR ID	DWR_RD1	001_03_s _ 201	2_22						
		Comn	nent Coc	de					
V4 : Elderb	perries are	blocking visib	ility and	flood fight	сара	ability.			
		Inspecto	or Comm	nent					
V4 : Elderb	perries are		oility and		capa	ability.			

No Photos

LM Start	11.59	Rating **	A/W	Issue No.		25		
LM End	11.80	Issue Type +	Ма	Location *	WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Vegetatio	Vegetation			02°	38.950960°		
пеш				-121.5568	72°	-121.560717°		
DWR ID	DWR ID DWR_RD1001_03_s _ 2013_25							
		Comn	nent Cod	de				
V8 : Enviro	onmental F	Requirements.						
		Inspecto	or Comm	nent				





Revegetation site in progress. Spring 2013

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	11.59	Rating **	С	Issue No.		51
LM End	11.59	Issue Type +	Ма	Location *	LS	
Catagory	Cotogon Earthen Levee			GPS Latitude/Longitude		
Category			Start		End	
Itom	Animal Co	ontrol		38.95126	3°	38.951263°
пеш	Animal Control		-121.55703	7°	-121.557037°	
DWR ID	DWR_RD1	001_03_f _ 201	6_51			
		Cama	ant Car	ام		

Comment Code

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Ма

Issue No.

Location *

38.947591°

-121.563390°

WS

End

38.946477

-121.564094 °

GPS Latitude/Longitude

Existing rodent hole are no longer active. When holes are filled, rating can be changed to "C" corrected.

Rating **

Issue Type +

2015 USACE Erosion Survey,

DWR RD1001 03 s 2016 4

LM Start

LM End

Category

Item

DWR ID

12.07

12.16

DRAFT

Supplemental

No Photos



Inspector Comment

Comment Code

2006 - Multiple rotational failures in the berm. Erosion is into the levee toe and lower slope. Tension cracks extensive at top of bank. Cohesive toe creates a bench on which failures occur. 2007 - Still steep bank with some berm with pistol-butted reeds. 2012 - Site extended upstream due to additional slumping. Slopes slightly steeper. 2015: Last observed in 2013. [2015 Site ID: BER_0-8_L]



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Bear River	Left	12.58	09/20/2016 09/20/2016	Sterling York

LM Start	12.18	Rating **	М	Issue No.		27	
LM End	12.18	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee				atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.9462	248°	38.946248 °	
пеш				-121.564220 °		-121.564220°	
DWR ID DWR_RD1001_03_s _ 2012_27							
		Comn	nent Cod	de			
V4 : Elderl	perries are	blocking visib	ility and	flood fight	сара	bility.	
			_				
		Inspecto	or Comm	nent			

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

11101	0.46	Rating **	Α	Issue No.		47	
LM Start	0.16	Rating	A	issue ivo.		47	
LM End	13.27	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.9387	76°	38.781191 °	
item			-121.567766 °		-121.605546°		
DWR ID DWR_RD1001_04_f _ 2016_47							
		Comn	nent Cod	de			
V1 : Contr	ol annual g	grass and wee	ds on th	e levee slo	pes a	and	
easements	S						
		Inspecto	or Comm	nent			



View of maintained vegetation on the landside looking downstream. Fall 2016.

LM Start	0.16	Rating **	Α	Issue No.	53		
LM End	13.27	Issue Type +	Ma	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Category		Start		End			
ltom	Vegetation Vegetation			38.938775°		38.781192°	
пеш				-121.567763 °		-121.605546°	
DWR ID	DWR_RD1	001_04_f _ 201	6_53				
		Comn	nent Cod	de			
V1 : Control annual grass and weeds on the levee slopes and easements.							
			0	1			

Inspector Comment



View of the waterside maintained vegetation looking downstream. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	0.17	Rating **	М	Issue No.		46	
LM End	0.17	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio		38.9387	'15 °	38.938715°		
пеш		-121.567768 ° -121.56776					
DWR ID	DWR_RD1	001_04_f _ 201	6_46				
		Comn	nent Cod	de			
V2 : Remo	ove the wild	d growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	nent			
Backberry	bush start	ing to climb th	ne landsi	de levee sl	ope.		



View of blackberry bush starting to climb the landside levee slope. Fall 2016.

LM Start	0.18	Rating **	М	Issue No.		63	
LM End	0.18	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Category	Category					End	
Item	Slope Stability			38.938534°		38.938534°	
пеш				-121.5677	29°	-121.567729°	
DWR ID	DWR_RD1	001_04_s _ 201	6_63				
Comment Code							
S3 · Panai	S3 : Panair the levee clone damaged by vehicle traffic and prevent						

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment



Landside slope erosion caused by vehicles.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	0.37	Rating **	A/W	Issue No.		64	
LM End	0.37	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS La	atitud	le/Longitude		
Odlogory				Start		End	
Item	Animal Co	ontrol		38.9359	03°	38.935903 °	
-121.567250					250°	-121.567250°	
DWR ID DWR_RD1001_04_s _ 2016_64							
		Comn	nent Cod	de			
A2 : Repai animal acc		slope damag	ed by liv	estock and	l pre	vent large	
		Inspecto	or Comm	nent			

LM Start	0.37	Rating **	A/W	Issue No.	64 (cont)

Location *

LS

Issue Type +

LM End

0.37



Livestock trail cut into landside slope. Spring 2016.

Photo 2 of 2: FA_2016_RD1001_38_64_20160926_00052.jpg



View of animal trail cut into the landside levee slope. Fall 2016.

LM Start	0.39	Rating **	М	Issue No.	16			
LM End	0.39	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS La	atitud	le/Longitude		
Calegory				Start		End		
Slope Stability				38.9355	19°	38.935519°		
item	#### 				42°	-121.567042 °		
DWR ID DWR_RD1001_04_f _ 2015_16								
		Comn	nent Cod	de				
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	d prevent		
		Inspecto	or Comm	nent				



View of rute made up the landside levee slope. Fall 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	0.49	Rating **	М	Issue No.		59
LM End	0.49	Issue Type +	Ma	Location *		LS
Cotogon/ Earthen Levee			GPS La	atitud	le/Longitude	
Category			Start		End	
Item	Trim / Thin Trees			38.934139 °		38.934139°
item				-121.567025 °		-121.567025 °
DWR ID	DWR_RD1	001_04_f _ 201	6_59			
		Comn	nent Cod	de		
T2: Thin trees to allow visibility of the ground and room to flood fight.						

Inspector Comment

Trees 4" in diameter should be removed.



View of three trees with diameters less than 4". Fall 2016.

LM Start	0.51	Rating **	N	Issue No.		21
LM End	0.51	Issue Type +	Ма	Location *	tion * LS	
Category Earthen Levee				GPS La	atitud	e/Longitude
Calegory				Start		End
Itom	Trim / Thi	n Trees		38.9337	96°	38.933796°
пеш	Item -121.					-121.567047°
DWR ID DWR_RD1001_04_f _ 2015_21						
		Comn	nent Coo	de		

T5: Tree stumps.

Inspector Comment

Remove stump from the landside levee slope.



View of a stump in the landside levee slope. Fall 2016.

LM Start	0.55	Rating **	М	Issue No.	68	
LM End	0.55	Issue Type +	Ма	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
Category	Category			Start		End
Item	Slope Stability		38.93329	99°	38.933299°	
item			-121.56706	69°	-121.567069°	
DWR ID	DWR_RD1	001_04_s _ 201	6_68			

Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment



View of ruts caused by vehicle on the landside levee slope. Fall 2016.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	0.55	Rating **	N	Issue No.		60
LM End	0.55	Issue Type +	Ma	Location *		WS
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Trim / Thi	n Trees		38.9332	29°	38.933229°
item				-121.5670	97°	-121.567097°
DWR ID DWR_RD1001_04_f _ 2016_60						
		Comn	nent Cod	de		
T5 : Tree s	stumps.					
			_			
		Inspecto	or Comm	nent		

Photo 1 of 1: FA_2016_RD1001_38_60_20160926_00057.jpg

View of tree stump, waterside crown at gate. Fall 2016.

	ı						
LM Start	0.55	Rating **	N	Issue No.		61	
LM End	0.55	Issue Type +	Ma	Location *		LS	
Category	evee	GPS La	atitud	e/Longitude			
Category				Start		End	
Item	Trim / Thi	n Trees		38.9332	29°	38.933229°	
itom				-121.5670	97°	-121.567097°	
DWR ID	DWR_RD1	001_04_f _ 201	6_61				
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
	Inspector Comment						



View of tree stump, landside crown at gate. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	0.78	Rating **	Α	Issue No.		31
LM End	0.78	Issue Type +	Ma	Location *		LS
Category	evee		GPS Latitude/Longitude			
Calegory				Start		End
Item	Vegetatio	n		38.930026°		38.930026°
пеш			-121.567918°		-121.567918°	
DWR ID	DWR_RD1	001_04_f _ 201	5_31			
		Comn	nent Cod	de		
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
As of Fall 2	2016, the v	egetation has	been re	emoved.		



View of the tall vegetation at the landside levee toe, Fall 2015. As of Fall 2016 the vegetation has been removed.

LM Start	1.06	Rating **	N	Issue No.		69
LM End	1.06	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory				Start		End
Item	Trim / Thin Trees			38.9261	28°	38.926128°
item				-121.5682	41°	-121.568241 °
DWR ID	DWR_RD1	001_04_s _ 201	6_69			
		Comn	nent Coo	le		
T5 : Tree s	stumps.					

Inspector Comment

Photo 1 of 1 : FA_2016_RD1001_38_69_20160926_00060.jpg



View of stump at landside levee toe. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	2.05	Rating **	A/W	Issue No.		39
LM End	2.05	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		38.9126	64°	38.912664°
item	-121.572928 ° -121.57292					
DWR ID	DWR_RD1	001_04_s _ 201	5_39			·
		Comn	nent Cod	de		
T2 : Thin t	rees to allo	w visibility of	the grou	nd and roo	m to	flood fight.
			_			
Inspector Comment						



Tree limbs have been trimmed to allow visibility and access on the landside looking downstream. Fall 2016.

LM Start	2.17	Rating **	С	Issue No.		70	
LM End	2.17	Issue Type +	Ма	Location *	WS		
Category	evee	GPS Latitude/Longitude					
Category	Sategory .					End	
Item	Vegetation			38.9111	56°	38.911156°	
пеш				-121.5740	31 °	-121.574031 °	
DWR ID DWR_RD1001_04_s _ 2016_70							
	Comment Code						

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

The wild growth has been removed with the annual vegetation maintenance. Fall 2016.

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	3.70	Rating **	С	Issue No.		62
LM End	3.70	Issue Type +	Ма	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Category			Start		End	
Item	Slope Sta	bility		38.89529	94 °	38.895294°
item				-121.59222	28°	-121.592228°
DWR ID DWR_RD1001_04_f _ 2016_62						
		Cama	ant Car	ام		

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

The ruts that where there at time of Fall 2016 inspection has been corrected.

No Photos

No Photos

LM Start	4.05	Rating **	С	Issue No.		65
LM End	4.10	Issue Type +	Ma	Location *		LS
Catagory	Earthen Levee			GPS Latitude/Longitude		
Calegory			Start		End	
Item	Slope Sta	bility		38.8928	67°	38.892532°
item				-121.5979	17°	-121.598697°
DWR ID DWR_RD1001_04_f _ 2016_65						
		_				

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

The ruts that where there at time of Fall 2016 inspection has been corrected.

LM Start	5.22	Rating **	М	Issue No.		78
LM End	5.22	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory	Category			Start		End
Item	Slope Sta	bility		38.8817	68°	38.881768°
item				-121.6113	02 °	-121.611302°
DWR ID	DWR_RD1	001_04_s _ 201	6_78			*

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Photo 1 of 2: FA_2016_RD1001_38_78_20160906_00028.jpg



Ruts on waterside slope due to vehicles. Spring 2016.

Location

N/A: Not Applicable

LS: Land Side WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected

A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	5.22	Rating **	М	Issue No.		78 (cont)		
LM End	5.22	Issue Type +	Ma	Location *		WS		
Category Earthen Levee			GPS Latitude/Longitude					
Calegory			Start		End			
Item	Slope Stability			38.881768 °		38.881768 °		
пеш			-121.611302 °		-121.611302 °			
DWR ID	DWR_RD1	001_04_s _ 201	6_78					
	Comment Code							
S3 · Renai	S3 : Renair the levee slone damaged by vehicle traffic and prevent							

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment



Ruts still there on waterside slope due to vehicles. Fall 2016.

LM Start	5.55	Rating **	M	Issue No.		79	
LM End	5.55	Issue Type +	Ma	Location *	WS		
Category	Earthen L	GPS Latitude/Longitude					
Calegory		Start		End			
Vegetation				38.8772	56°	38.877256	0
item			-121.613073 °		-121.613073	0	
DWR ID	DWR_RD1	001_04_s _ 201	6_79				
		_					

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

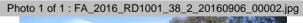
Inspector Comment

No Photos

LM Start	5.80	Rating **	М	Issue No.		2	
LM End	5.93	Issue Type +	Ma	Location *	WS		
Category	Suppleme	ental	ntal		titud	le/Longitude	
Calegory			Start		End		
Item	2015 USACE Erosion Survey,			38.87411	3°	38.872373°	
item	DRAFT		-121.61538	0°	-121.616504°		
DWR ID	DWR_RD1001_04_s _ 2016_2						
Comment Code							

Inspector Comment

2011 - Erosion pockets from tree popouts. Sections of the lower bank have slumped off. 2013 - Scallops from tree popouts no longer visible on site. Minor new erosion at the middle of the bank. 2015: Fresh erosion from human use. [2015 Site ID: FHR_6-6_L]





USACE 2013 Photo #1

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	6.42	Rating **	М	Issue No.	5			
LM End	6.51	Issue Type +	Ма	Location *	WS			
Category			GPS Latitude/Longitu			e/Longitude		
Calegory				Start		End		
2015 USACE Erosion Survey,			38.865875°		38.864706°			
item	DRAFT			-121.619983 °		-121.620813°		
DWR ID	DWR_RD1	001_04_s _ 201	6_5					
	Comment Code							
	Inspector Comment							

2011 - Tall slumping sections. Scour around trees has exposed most of the roots. 2015: Recent large slope failure observed. [2015 Site ID: FHR_6-0_L]



USACE 2013 Photo #1

LM Start	6.57	Rating **	М	Issue No.		4	
LM End	6.77	Issue Type +	Ma	Location *		WS	
Category			GPS Latitude/Longitude				
Calegory			Start		End		
2015 USACE Erosion Survey,			38.8639	46 °	38.861558°		
пеш	DRAFT		-121.6213	38°	-121.623316°		
DWR ID	DWR_RD1001_04_s _ 2016_4						
Comment Code							

Inspector Comment

2011 - Large slumped sections on the lower bank. 2012 - New cracks observed. 2015: No observed changes. [2015 Site ID: FHR_5-8_L]



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	6.81	Rating **	М	Issue No.		84		
LM End	6.81	Issue Type +	Ma	Location *	WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category			Start		End			
Vegetation		38.8608	52°	38.860852°				
пеш				-121.623490 °		-121.623490°		
DWR ID	DWR_RD1	DWR_RD1001_04_s _ 2016_84						
		Comn	nent Cod	de				
V4 : Elderl	perries are	blocking visib	ility and	flood fight	сара	bility.		
			_					
		Inspecto	or Comm	nent				

No Photos

LM Start	7.47	Rating **	M	Issue No.	8		
LM End	7.79	Issue Type +	Ma	Location *	WS		
Category	Suppleme	GPS Latitude/Longitude					
				Start		End	
ltom	2015 USACE Erosion Survey, DRAFT			38.85239	94°	38.848004	0
Item				-121.62923	31 °	-121.630873	0
DWR ID	DWR_RD1	001_04_s _ 201	6_8				
		Comn	nent Coc	le			

Inspector Comment

2000 - Steep bank off berm with some slumps and fallen trees, continued erosion. 2002 - Site lengthened upstream and downstream due to vertical bank along most of the reach. 2010 - Site extended upstream. 2011 - Minimal new erosion. 2012 - Site extended on the upstream end, new tree pop-out, and bank erosion continues to worsen. 2013 - Minor new erosion at the toe and top of bank. 2015: No observed changes. [2015 Site ID: FHR_5-0_L]



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	7.56	Rating **	С	Issue No.		42		
LM End	7.56	Issue Type +	Ма	Location *	WS			
Category Earthen Levee				GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Slope Sta	bility		38.8510	80°	38.851080°		
пеш				-121.629217 °		-121.629217 °		
DWR ID DWR_RD1001_04_s _ 2015_42								
		Comn	nent Cod	de				
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	I prevent		
		Inspecto	or Comm	nent				
Shoulder of waterside crown has been repaired.								

No Photos

1110	7.00	Rating **	М	Issue No.		20		
LM Start	7.60			issue ivo.		36		
LM End	7.60	Issue Type +	Ma	Location *		WS		
Category	evee	GPS La	atitud	le/Longitude				
Category				Start		End		
Item	Erosion / I	Bank Caving		38.8505	21°	38.850521 °		
item				-121.6294	23°	-121.629423 °		
DWR ID DWR_RD1001_04_f _ 2015_36								
		Comn	nent Cod	de				
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.		
		Inspecto	or Comm	nent				
Ramp has vertical cut into the levee prism.								



View of vertical cut for ramp in the landside levee slope looking upstream. Fall 2016.

FINAL DATA

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	7.66	Rating **	С	Issue No.	56		
LM End	7.66	Issue Type +	Ma	Location *	WS		
Earthen Levee				GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Slope Sta	bility		38.8496	21 °	38.849621 °	
пеш				-121.629685 °		-121.629685 °	
DWR ID	DWR_RD1	001_04_f _ 201	5_56				
		Comn	nent Cod	de			
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.							
Inspector Comment							
Shoulder of crown has been repaied. Fall 2016.							

No Photos

LM Start	8.57	Rating **	М	Issue No.	7			
LM End	8.97	Issue Type +	Ма	Location *	WS			
Category				GPS Latitude/Longitude				
Calegory			Start	End	End			
Item		CE Erosion S	Survey,	38.83696	6°	38.831498 °	0	
item	DRAFT			-121.63412	8°	-121.636371 °	o	
DWR ID DWR_RD1001_04_s _ 2016_7								
Comment Code								

Inspector Comment

2006 - Sandy, silty bank with intermittent pockets of erosion. Rotational failure and tree pop outs are most of the problem. Some upper slope fluvial erosion. 2010 - Site extended upstream. The lower Feather may benefit from a regional repair. 2011 - Site combined with 3.6. Minimal new erosion. 2013 - New erosion observed at bank toe. Trees on site now have exposed roots. 2015: No observed changes. [2015 Site ID: FHR_3-8_L]





USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	8.60	Rating **	С	Issue No.		83		
LM End	8.60	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Trim / Thi	n Trees		38.8363	98°	38.836398°		
пеш				-121.633621 °		-121.633621 °		
DWR ID DWR_RD1001_04_s _ 2016_83								
		Comn	nent Cod	de				
T5 : Tree s	stumps.							
		Inspecto	or Comm	nent				
Tree stump has been removed.								

No Photos

LM Start	8.65	Rating ** M		Issue No.		12
LM End	8.72	Issue Type + Ma I		Location *		LS
Category	Earthen L	GPS La	titud	e/Longitude		
Category				Start		End
Item	Vegetatio	n		38.8357	66 °	38.834778°
item	***				66 °	-121.634316°
DWR ID	DWR RD1	001 04 s 201	2 12			

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

LM Start	9.44	Rating **	С	Issue No.	45	
LM End	9.44	Issue Type +	Ма	Location *	WS	
Category Earthen Levee			GPS Lat	ituc	le/Longitude	
Calegory				Start		End
Item	Slope Sta	bility		38.82500	8 °	38.825008°
item	item				1 °	-121.639361 °
DWR ID DWR_RD1001_04_s _ 2015_45						
		Comp	ant Coo	lo.		

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Shoulder of crown has been repaired.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	10.88	Rating **	С	Issue No.		48	
LM End	10.88	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Slope Sta	bility		38.8053	12°	38.805312°	
item				-121.6333	00°	-121.633300°	
DWR ID	DWR_RD1	001_04_s _ 201	5_48			·	
		Comn	nent Cod	de			
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	I prevent	
	Inspector Comment						
These ruts have been repaired. Fall 2016.							

No Photos

LM Start	11.01	Rating **	С	Issue No.		55	
LM End	11.01	Issue Type +	Ma	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Animal Co	ontrol		38.8034	92°	38.803492°	
item		-121.632832 ° -121.63283					
DWR ID DWR_RD1001_04_f _ 2015_55							
Comment Code							

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

There is no new activity at this location and holes seem to be abandoned. Fall 2016.

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.05	Rating **	M	Issue No.		22	
LM End	11.11	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.8028	75°	38.802000 °	
пеш				-121.6328	62 °	-121.632763°	
DWR ID	DWR_RD1	001_04_s _ 201	2_22				
		Comn	nent Coc	de			
V4 : Elderk	perries are	blocking visib	ility and	flood fight	сара	bility.	
		Inspecto	or Comm	nent			

No Photos

LM Start 11.09 Rating ** С Issue No. Issue Type + Location * 11.09 Ma LS LM End Earthen Levee GPS Latitude/Longitude Category End Slope Stability 38.802270° 38.802270° Item -121.632818 ° -121.632818° DWR ID DWR RD1001 04 s 2016 81 Comment Code

No Photos

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

These ruts have been repaired. Fall 2016.

LS : Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.18	Rating **	М	Issue No.		6
LM End	11.37	Issue Type +	Ma	Location *	WS	
Category	ental	GPS Latitude/Longitude				
Calegory			Start		End	
Item		ACE Erosion S	Survey,	38.80092	20°	38.798165°
пеш	DRAFT			-121.6330	50°	-121.631939°
DWR ID DWR_RD1001_04_s _ 2016_6						
Comment Code						

Inspector Comment

2000 - Site is relatively stable except for some toe erosion at the upstream end, recommend monitoring the upstream end. 2004 - Some new block failures (10ft deep) at the toe of the upstream end. 2007 -Some minor new slumping at the waterline. 2013 - Minor new erosion along the bank toe. 2015: No observed changes. [2015 Site ID: FHR_1-



USACE 2013 Photo #1

LM Start	11.20	Rating **	С	Issue No.		51
LM End	11.20	Issue Type +	Ma	Location *		WS
Category	evee	GPS Latitude/Longitude				
Category				Start		End
Item	Slope Sta	bility		38.8006	97°	38.800697°
item				-121.6323	82°	-121.632382 °
DWR ID DWR_RD1001_04_s _ 2015_51						·
Comment Code						

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

These ruts have been repaired. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.24	Rating **	М	Issue No.		23	
LM End	11.24	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.8001	74°	38.800174 °	
пеш				-121.6322	27°	-121.632227 °	
DWR ID	DWR_RD1	001_04_s _ 201	2_23				
		Comn	nent Cod	de			
V4 : Elder	berries are	blocking visib	oility and	flood fight	capa	bility.	
	Inspector Comment						

No Photos

LM Start	11.59	Rating **	М	Issue No.	1		
LM End	11.75	Issue Type +	Ма	Location *		WS	
Category	GPS La	atitud	le/Longitude				
Calegory			Start		End		
Item		ACE Erosion S	Survey,	38.7954	55°	38.793394 °	
iteiii	DRAFT			-121.6299	03°	-121.628156 °	
DWR ID DWR_RD1001_04_s _ 2016_1							
Comment Code							

Inspector Comment

1997- Deposits over top of cobble on the upper slope. 2000 - Old cobble site in poor shape; some toe retreat, but little change; steep bank. 2010 - Site extended upstream due to new toe erosion. 2012 - Minor new erosion at toe, new slumping, animals holes and cracks observed. 2015: No observed changes. [2015 Site ID: FHR_0-6_L]

Photo 1 of 1 : FA_2016_RD1001_38_1_20160906_00001.jpg



USACE 2013 Photo #1

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	11.74	Rating **	М	Issue No.		54	
LM End	11.74	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Slope Sta	bility		38.7937	96°	38.793796°	
пеш		-121.627829 ° -121.62782					
DWR ID	DWR_RD1	001_04_s _ 201	5_54				
		Comn	nent Cod	de			
S2 : Repai where pos		slope damag	jed by fo	ot traffic an	d pr	event access	
Inspector Comment							
Vehicle ruts need to be repaired on the levee shoulder. Fall 2016.							



View of vehicle ruts in levee shoulder on the waterside looking downstream. Fall 2016.

LM Start	11.89	Rating **	С	Issue No.		38	
LM End	11.89	Issue Type +	Ma	Location *	LS		
Category	evee		GPS La	atitud	e/Longitude		
Category				Start		End	
Item	Animal Co	ontrol		38.7919	72°	38.791972°	
item				-121.6262	04 °	-121.626204°	
DWR ID DWR_RD1001_04_f _ 2015_38							
	Comment Code						
43 · No ro	dante vieih	le hut rodent	hurrowe	vicible: ned	ad to	hackfill and	

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	12.32	Rating **	М	Issue No.		24
LM End	12.41	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Category				Start		End
Item	Vegetatio	n		38.7873		38.786507°
пеш				-121.6211	65 °	-121.619837 °
DWR ID	DWR_RD1	001_04_s _ 201	2_24			
		Comn	nent Coc	de		
V4 : Elderl	perries are	blocking visit	ility and	flood fight	сара	ability.
	Inspector Comment					

No Photos

Issue No. LM Start 12.44 Rating ** 49 Location * Issue Type + LS LM End 12.44 Ma Earthen Levee GPS Latitude/Longitude Category Start End Trim / Thin Trees 38.786433° 38.786433° Item -121.619104° -121.619104° DWR RD1001 04 f 2016 49 DWR ID

Comment Code

T3: Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

Downed tree on landside levee slope needs to be removed.



View of a downed tree on the landside levee toe and slope. Fall 2016.

LM Start	12.65	Rating **	М	Issue No.		26	
LM End	13.14	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	tituc	le/Longitude	
Category				Start		End	
Item	Vegetatio	n		38.7845	13°	38.781862	0
пеш				-121.6160	45 °	-121.607855	0
DWR ID	DWR_RD1	001_04_s _ 201	2_26				
		Comp	ant Coo	lo.			

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR · Crown	U · Unacceptable	A/W · Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	12.67	Rating **	М	Issue No.		11
LM End	13.12	Issue Type +	Ma	Location *		WS
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Vegetatio	n		38.7845	79°	38.782150°
пеш			-121.615689° -121.60		-121.607918°	
DWR ID	DWR_RD1	001_04_f _ 201	3_11			
		Comn	nent Cod	de		
V4 : Elderk	perries are	blocking visib	ility and	flood fight	сара	ability.
			_			
		Inspecto	or Comm	nent		

No Photos

LM Start	12.82	Rating **	М	Issue No.		151	
LM End	12.82	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Trim / Thi	/ Thin Trees 38.783930 °			38.783930°		
item				-121.6129	52°	-121.612952°	
DWR ID	DWR_RD1	001_04_s _ 201	2_151				
		Comn	nent Coo	le			
T1: Trim t	rees to at l	east five feet	above g	round level.			
		Inspecto	or Comm	ent			



Trees need to be trimmed up at least 5 feet. Spring 2013

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Feather River	Left	13.27	09/20/2016 09/21/2016	Sterling York

LM Start	13.12	Rating **	М	Issue No.		58
LM End	13.12	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		38.7821	70°	38.782170°
nem				-121.6079	35°	-121.607935 °
DWR ID DWR_RD1001_04_f _ 2015_58						
		Comn	nent Cod	de		
T1 : Trim t	rees to at I	east five feet	above g	round level.		
		Inspecto	or Comm	nent		
Trim brand	h up 5' ab	ove slope. Fa	II 2016.			



View of landside tree that need the limbs trimmed up 5' above the slope for visibility and access. Fall 2016.

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Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	0.01	Rating **	Α	Issue No.	11		
LM End	5.38	Issue Type +	Ma	Location *		LS	
Category	evee	GPS La	atitud	e/Longitude			
Calegory				Start	End		
Item	Vegetatio	n		38.7813	48°	38.831000°	
item				-121.6053	93 °	-121.529922 °	
DWR ID DWR_RD1001_05_f _ 2016_11						·	
	Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The Levee has no unwanted vegetation blocking visibility or access; vegetation is very well maintained.



View of maintained grasses on landside looking downstream.

LM Start	0.01	Rating **	Α	Issue No.		12	
LM End	5.38	Issue Type +	Ma	Location *		WS	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item	Vegetatio	n		38.7813	49°	38.831000°	
item				-121.6053	94°	-121.529921 °	
DWR ID	R ID DWR_RD1001_05_f _ 2016_12						

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The Levee has no unwanted vegetation blocking visibility or access; vegetation is very well maintained.

Photo 1 of 1: FA_2016_RD1001_39_12_20160923_00032.jpg



View of maintained grasses on waterside looking downstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	0.34	Rating **	С	Issue No.	20		
LM End	0.34	Issue Type +	Ma	Location *	CR		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
ltem	Crown Su	rface / Depres	ssions /	38.7856	09°	38.785609°	
пеш	Rutting			-121.602750 °		-121.602750 °	
DWR ID	DWR_RD1	001_05_s _ 201	16_20				
		Comn	nent Coc	le			
C2 : Repai	r depressi	ons or ruts in	the crow	n or slope.			
Inspector Comment							
The rut ha	The rut has been repaired and new rock is being laid, Fall 2016.						

No Photos

No Photos

LM Start	0.84	Rating **	С	Issue No.		18
LM End	0.84	Issue Type +	Ma	Location *		WS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item Erosion / Bank Caving				38.7945	89°	38.794589°
пеш				-121 5906	03°	-121 590603°

DWR ID DWR_RD1001_05_s _ 2015_18

E1: Note and monitor erosion site.

Inspector Comment

Comment Code

The cracks from erosion on the waterside of the levee facing upstream has been repaired and new rock is being laid.

LM Start	1.54	Rating **	С	Issue No.	21		
LM End	1.54	Issue Type +	Ma	Location *	CR		
Category Earthen Levee				GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		rface / Depres	ssions /	38.7971	32°	38.797132	0
пеш	Rutting		-121.5864	00°	-121.586400	0	
DWR ID	DWR_RD1	001_05_s _ 201					
0							

Comment Code

C2: Repair depressions or ruts in the crown or slope.

Inspector Comment

The ruts have been repaired and new rock is being laid, Fall 2016.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 05 Natomas Cross Canal	Right	5.39	09/21/2016 09/21/2016	Sterling York

LM Start	2.31	Rating **	М	Issue No.	1		
LM End	2.34	Issue Type +	Ma	Location *	WS		
Category	Suppleme	ntal		GPS La	atitud	e/Longitude	
Calegory				Start		End	
2015 USACE Erosion Survey,			38.8038	77°	38.804206°		
пеш	DRAFT			-121.5750	53°	-121.574529°	
DWR ID	DWR_RD1	001_05_s _ 201	6_1				
		Comn	nent Cod	le			
	Inspector Comment						

2006 - Noted old saturation slumping of upper levee slope that is into the levee core (near high water line). 2011 - Erosion is into the top of the levee. This site is actually located at LM 2.5. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: NCC_3-0_R] No Photos

WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

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Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	0.00	Rating **	Α	Issue No.	e No. 16		
LM End	4.73	Issue Type +	Ma	Location *	LS		
Cotogon Earthen Levee				GPS La	atitud	le/Longitude	
Calegory	Category			Start		End	
Item	Vegetatio	n		38.8310	88°	38.896359°	
item				-121.5297	62°	-121.520372°	
DWR ID	DWR_RD1	001_06_f _ 201	6_16				
Comment Code							
V1 : Control annual grass and weeds on the levee slopes and							

easements.

Inspector Comment

The Levee has no unwanted vegetation blocking visibility or access; vegetation is very well maintained.



View of maintained annual grasses, water side, looking upstream. Fall 2016.

LM Start	0.00	Rating **	Α	Issue No.	17	
LM End	4.73	Issue Type +	Ма	Location *	WS	
Category Earthen Levee				GPS La	tituc	le/Longitude
				Start		End
Item	Vegetatio	n		38.8310	38°	38.896359°
пеш					62 °	-121.520372 °
DWR ID DWR_RD1001_06_f _ 2016_17						
Comment Code						

V1: Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

The Levee has no unwanted vegetation blocking visibility or access; vegetation is very well maintained.

Photo 1 of 1: FA_2016_RD1001_40_17_20160923_00036.jpg



View of maintained vegetation. Fall 2016.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	0.01	Rating **	М	Issue No.		18	
LM End	0.01	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Trim / Thi		38.8311	92°	38.831192°		
пеш			-121.529580 °		-121.529580°		
DWR ID	DWR_RD1	001_06_s _ 201	6_18				
		Comn	nent Cod	de			
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.							
Inspector Comment							



View of trees that need to be trimmed for visibility on the landside looking upstream. Fall 2016.

LM Start	2.05	Rating **	A/W	Issue No.		8	
LM End	2.05	Issue Type +	Ма	Location *	CR		
Category Earthen Levee			GPS La	e/Longitude			
Calegory	Sategory			Start		End	
ltom	Item Crown Surface / Depressions / Rutting			38.860002°		38.860002°	
пеш				-121.5248	73 °	-121.524873°	
DWR ID	DWR ID DWR_RD1001_06_s _ 2012_8						
Comment Code							
C2 : Repai	ir depressi	ons or ruts in	the crow	n or slope.			

Inspector Comment

Crown where there is cross traffic. Monitor this area and fix as needed.

Photo 1 of 1: FA_2016_RD1001_40_8_20160923_00041.jpg



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

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Flood Control Project Maintenance Levee Inspections

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

	_					
LM Start	4.04	Rating **	A/W	Issue No.		7
LM End	4.04	Issue Type +	Ma	Location *		CR
Earthen Levee				GPS Latitude/Longitude		
Category	jory			Start		End
Item	Crown Surface / Depressions /			38.888803°		38.888803°
пеш	Rutting			-121.5247	-121.524738 °	
DWR ID DWR_RD1001_06_s _ 2012_7						
		Comn	nent Coc	le		
C2 : Repai	ir depressi	ons or ruts in	the crow	n or slope.		
Inspector Comment						
Crown where there is cross traffic. Monitor this area and fix as needed.						



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

-							
LM Start	4.33	Rating **	A/W	Issue No.		19	
LM End	4.33	Issue Type +	Ma	Location *	CR		
Category Earthen Levee				GPS Latitude/Longitude			
Category	jory			Start		End	
Item	Crown Surface / Depressions / Rutting			38.8929	99°	38.892999°	
пеш				-121.5247	'11 °	-121.524711 °	
DWR ID	DWR_RD1	001_06_f _ 201	3_19				
		Comn	nent Cod	de			
C2 : Repa	ir depressi	ons or ruts in	the crow	n or slope.			
Inspector Comment							
Crown wh	ere there is	cross traffic.	Monitor	this area a	nd fi	x as needed.	



View of crown where there is cross traffic looking upstream. Monitor this area and fix as needed.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 1001 Nicolaus

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 06 East Side Canal	Right	4.74	09/21/2016 09/21/2016	Sterling York

LM Start	4.38	Rating **	N	Issue No.		22	
LM End	4.38	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
Item	Trim / Thin Trees			38.8937	'28 °	38.893728°	
пеш				-121.524715 °		-121.524715°	
DWR ID DWR_RD1001_06_f _ 2016_22							
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
		Inspecto	or Comm	nent			
A stump at the landside levee toe.							



View of a stump at the landside levee toe. Fall 2016.

LM Start	4.71	Rating **	М	Issue No.		24	
LM End	4.71	Issue Type +	Ма	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
				Start		End	
Item	Encroachments			38.8963	10°	38.896310°	
пеш				-121.5206	-121.520674°		
DWR ID DWR_RD1001_06_f _ 2016_24							
		Comn	nent Cod	de			
DE : Debri	s						
			-				
		Inspect	or Comm	nent			
Old peace of pipe lying on landside levee slope.							



View of an old peace of pipe lying on landside levee slope looking upstream. Fall 2016.